OIPE

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      RAW SEQUENCE LISTING                DATE: 09/14/2000
      PATENT APPLICATION:   US/09/651,563  TIME: 12:31:52

          Input Set : A:\478c10.app
          Output Set: N:\CRF3\09142000\I651563.raw

   3 <110> APPLICANT: Wang, Tongtong
   4         Bangur, Chaitanya S.
   5         Lodes, Michael A.
   6         Fanger, Gary
   7         Vedvick, Tom
   8         Carter, Darrick
   9         Retter, Marc
  10         Mannion, Jane
  11         Fan, Liqun
W--> 12 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
W--> 13         DIAGNOSIS OF LUNG CANCER
  15 <130> FILE REFERENCE: 210121.478C10
C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/651,563
  18 <141> CURRENT FILING DATE: 2000-08-29
  20 <160> NUMBER OF SEQ ID NOS: 1679
  22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  24 <210> SEQ ID NO: 1
  25 <211> LENGTH: 527
  26 <212> TYPE: DNA
  27 <213> ORGANISM: Homo sapien
  29 <400> SEQUENCE: 1
  30  ccaccagtcc acaaatgtga ctggtaaggg atctagtaac agaggatgga gttgggcaga    60
  31  atattatcct ggatgatatg cacccagcac tagaatacac ctttcattag aatgaagaga   120
  32  acagacaaag ccctcagaaa agatacaaag gcagagacat tgattagaac attatctcat   180
  33  aacagaggtg gggccattac ccaccattat tgtaaaataa ctgtaactaa ccaaaacaca   240
  34  tacaggcttc tttaatggag ttaataaaac tatggcacat tgggaatcag gggcagaggt   300
  35  actgttccca gacggaaaac tgggataaag ggagccatgc tgacagggcc ttattccagt   360
  36  ctaggttgtt agaaaggagc cctagcccag aaatgacagc aaatagccat aatcattatg   420
  37  tggggctgaa ccagaggaag ccaggctgag ccaagaagct ggaagtatct tgaacggctc   480
  38  tccaaatcca aagattatcc atactcttta tccctccagc gatgtgt                 527
  40 <210> SEQ ID NO: 2
  41 <211> LENGTH: 490
  42 <212> TYPE: DNA
  43 <213> ORGANISM: Homo sapien
  45 <400> SEQUENCE: 2
  46  ccaagagttc tccactgtga agactgaaag gacctggtga catttcggca tcagtcctgt    60
  47  taccacttgg aggtaacaga agcaggctcg tgtcctcctt taattctacc acactacatg   120
  48  actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct tagggggcatg   180
  49  aagagtcagc tagaacaagg aaaaagaaag tcgcaggtag taggtaagta ggtgggcaca   240
  50  tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc   300
  51  agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gaccaaaaag   360
  52  ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gctgaggggt gtgaggctct   420
  53  agttgtgaag aagctacaag aaatcatgat gcatgtgatc tgggccgcac tggcatttgc   480
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  57 <211> LENGTH: 464
  58 <212> TYPE: DNA
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 63  gcagtagggt ctgatgaaaa ggttgcctac cttcaaaagc ttggatttga tgtcgtcttt     120
 64  aactacaaga cggtagagtc tttggaagaa accttgaaga aagcgtctcc tgatggttat     180
 65  gattgttatt ttgataatgt aggtggagag ttttcaaaca ctgttatcgg ccagatgaag     240
 66  aaatttggaa ggattgccat atgtggagcc atctctacat ataacagaac cggcccactt     300
 67  cccccaggcc cacccccaga gattgttatc tatcaggagc ttcgcatgga agcttttgtc     360
 68  gtctaccgct ggcaaggaga tgcccgccaa aaagctctga aggacttgct gaaatgggtc     420
 69  ttagagttta aatttcagct tccctacttt gtaattgact gact                      464
 71 <210> SEQ ID NO: 4
 72 <211> LENGTH: 510
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Homo sapien
 76 <400> SEQUENCE: 4
 77  ccttatcaca ctgtaagtgg tccaagccca tagggatgct cttttttggtt cctggaattt     60
 78  ccagttggat gtgacagaga tctttcagta taggtctaag tcaagagtag cctctgggtt     120
 79  gaggtgggct gggagattaa catcttacct ggggtccttc agataaacct gttggttttt     180
 80  cctgtctcat acaggcccat cttaagtttt gatgttgaat taaaactact tctacccccct    240
 81  tagttataaa aaaggccaca aggagcattt atgtggatat ctggaagtga gatagttatt     300
 82  ccattcccag gaaaagaaaa ataaagctaa gttacaaaac taaatctata tgcaataaag     360
 83  ttattatata ctgctttgtt taagcagagt cctctggaat ttatgtacag tacattagtt     420
 84  ttcagctatt tatattccac aagttagacc ttaagattct ctggttttaa gacaattgtt     480
 85  aaagatactt ctaaagctct gagcagttca                                      510
 87 <210> SEQ ID NO: 5
 88 <211> LENGTH: 452
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Homo sapien
 92 <400> SEQUENCE: 5
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 94  agtagcagct cagactgcca gagatcgaaa gaaggctcga atgagtgagc tggaacagca     120
 95  agtggtagat ttagaagaag agaaccaaaa acttttgcta gaaaatcagc ttttacgaga     180
 96  gaaaactcat ggccttgtag ttgagaacca ggagttaaga cagcgcttgg ggatggatgc     240
 97  cctggttgct gaagaggagg cggaagccaa ggtaaatcat ctcctttatt tggtgcctca     300
 98  tgtgagtact ggttccaagt gacatgaccc agcgattatg tttacagtct ggacttctga     360
 99  tcaagagcgt tcttgaaatt ttccttcagt tttaagacat tttcatgcag gcagagtgtt     420
100  cttcccctaa aggcacttga cactcatttt tt                                   452
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103 <211> LENGTH: 336
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapien
107 <400> SEQUENCE: 6
108  tatagagtgc tgacatctga cattgagaaa ttcatgccta ttgtttatac tcccactgtg      60
109  ggtctggctt gccaacaata tagtttggtg tttcggaagc caagaggtct ctttattact     120
110  atccacgatc gagggcatat tgcttcagtt ctcaatgcat ggccagaaga tgtcatcaag     180
111  gccattgtgg tgactgatgg agagcgtatt cttggcttgg gagaccttgg ctgtaatgga     240
112  atgggcatcc ctgtgggtaa attggctcta tatacagctt gcggagggat gaatcctcaa     300
113  gaatgtctgc ctgtcattct ggatgtggga accgaa                               336
115 <210> SEQ ID NO: 7
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116 <211> LENGTH: 376
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118 <213> ORGANISM: Homo sapien
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122  aggagttagc caaacaacaa caaaaacaaa aaatgtgctg ttcaagtttt cagctttaag   120
123  atatctttgg ataatgttat ttctattttt tattttttttt cattagaagt taccaaatta   180
124  agatggtaag acctctgaga ccaaaatttt gtcccatctc tacccccctca caactgctta   240
125  cagaatggat catgtccccc ttatgttgag gtgaccactt aattgctttc ctgcctcctt   300
126  gaaagaaaga aagaaagaag actgtgtttt tgccactgat ttagccatgt gaaactcatc   360
127  tcattaccct tttctg                                                   376
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 406
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapien
134 <400> SEQUENCE: 8
135  ggtagggagc aattctatta tttggcattg catggctggg ttgaattaaa acagggagtg    60
136  agaacaggtg agtctagaag tccaactctg aaaaggacca ctgtacattt gaacacacgg   120
137  ctgtgttaaa gatgctgcta atgtcagtca ctgggtgcac taaaggatct cttattttat   180
138  gtaaaacgtt gggattgaca agatagatct gatactctgt taagttaccc tctgaagcta   240
139  cttcttgtga aatactaatg acagcatcat cctgccaagc gaaagaggca ggcataagca   300
140  aggacaaatt aaaagggggt aagagcctta tcatgatgag gagtcttgtt ttgacatctt   360
141  gggaaaagct gtccatagtg tgaagtcgtc aatttctcac catggt                 406
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 330
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapien
148 <400> SEQUENCE: 9
149  actactacca agagctgcag agagacattt ctgaaatgtt tttgcagatt tataaacaag    60
150  ggggttttct gggcctctcc aatattaagt tcaggccagg atctgtggtg gtacaattga   120
151  ctctggcctt ccgagaaggt accatcaatg tccacgacgt ggagacacag ttcaatcagt   180
152  ataaaacgga agcagcctct cgatataacc tgacgatctc agacgtcagc gtgagtgatg   240
153  tgccatttcc tttctctgcc cagtctgggg ctggggtgcc aggctggggc atcgcgctgc   300
154  tggtgctggt ctgtgttctg gttgcgctgg                                   330
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 449
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapien
161 <400> SEQUENCE: 10
162  ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga    60
163  ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta   120
164  ggtgtctcag ggctgggttg gggtccaaag tgtaaggacc ccctgccctt agtggagagc   180
165  tggagcttgg agacattacc ccttcatcag aaggaatttt cggatgtttt cttgggaagc   240
166  tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt   300
167  catgcgggta agttgaggtt atcttgggat aaagggtctt ctagggcaca aaactcactc   360
168  taggtttata ttgtatgtag cttatatttt ttactaaggt gtcaccttat aagcatctat   420
169  aaattgagtt ctttttctta gttgtatgg                                    449
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 472
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174  <213> ORGANISM: Homo sapien
176  <400> SEQUENCE: 11
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178  tctgtggtga ggtatggatg tctgcagtct acacaacagc cctgcagaac gggcctggac   120
179  aacccttggg ggataagaca gccacacatg gctcaggctg ttaggtgtcc actgtcacag   180
180  tccaaagaga aaggtacggc ctccaagggg gcagcttaag ccaacatgta agacttgggc   240
181  acgatgaaag gacgggggtc cagctacgaa tgtttttgtt cttgatgtca agttgccagc   300
182  tactggaagg caggagcagt ttcttctttt tcccactctg tgctgggtac ttgggagagg   360
183  cgaaataaat accagactgt ccactcctca gcctaaggtc cttctcaagt cctgcacact   420
184  cagcacttgc tctttaacgt ggcatatgtt cccccatctt ccctggtaa tg             472
186  <210> SEQ ID NO: 12
187  <211> LENGTH: 371
188  <212> TYPE: DNA
189  <213> ORGANISM: Homo sapien
191  <400> SEQUENCE: 12
192  tttttttttt tttttttttt ttttggarat ttgkcacatt ttattcagwa tttctgctgc    60
193  actgccagcc tagggatgca cttgattccc aagaaatgca actgtcctat tcgcaragcc   120
194  gtccacaggt acctaccccc tggactgcag caactttatt accttaacta gcacaraaca   180
195  gaggttgatt taaactcctt acactcactt ctcaratcaa tgaatgggca aaraaacmcc   240
196  tcatggctct gggaaggcat gctgaraccc gttttttgcaa gtcctgagga atggaaraat   300
197  atagctgcca ggtatcccaa gtctagggca gggagggkag tatcggcatc actttcactg   360
                                                                         371
198  cattctgttg g
200  <210> SEQ ID NO: 13
201  <211> LENGTH: 493
202  <212> TYPE: DNA
203  <213> ORGANISM: Homo sapien
205  <220> FEATURE:
206  <221> NAME/KEY: misc_feature
207  <222> LOCATION: (1)...(493)
208  <223> OTHER INFORMATION: n = A,T,C or G
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212       ctycaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat   120
213       aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt   180
W--> 214  tcgaatccat ttctgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc   240
215       caacctgctc ctcattattg taaacatgtg cagaatcaat atggcggaac ccagcttcta   300
216       ttgctaattt tgtgacctcc aaagctttac ttctcggaac cttggttctt ccgagcgctc   360
217       agcaatcccg ccgagcttct ttgagacgtc ctcaggtgtc ctttgacgat gcgtcctcca   420
218       ctttcacaca ctctagcatt ccttcactgg ggtcttcatt gccccacatt gggcagccag   480
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219       gaatgttggg gtg
221  <210> SEQ ID NO: 14
222  <211> LENGTH: 540
223  <212> TYPE: DNA
224  <213> ORGANISM: Homo sapien
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228  gtcttgtact ccagggtgga agtcatggta tagagctgag tcactgggtc catttccttt   120
229  ttaaaattat gaccaccgct ccttcaaggg gatgtagcac ttttccattc ctgtaccatg   180
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     Input Set : A:\478c10.app
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230  tgatattgcc atctggataa ctgtcttctg aaatgcagtc acccaacttt tttagctgct      240
231  ctgtttcgag aaacagtgct ttgcttacaa tttcaggttt agatggttgc ttgaacacct      300
232  tgactattgt aggtgcctca aacacgttgt cctcagttac tagcatgcac acaaatctct      360
233  tttcatcact gatccttgca ttactgatag acaaagtgta gttttctgag aggttcaatc      420
234  tgtctttgta ttctggtaca tcgtcgtact gcacactttt ctttgtagag gatctgaagg      480
235  caataaaatac tggggagcca tcgggctttt catatttcca tttgcccaaa catgagattc      540
237  <210> SEQ ID NO: 15
238  <211> LENGTH: 421
239  <212> TYPE: DNA
240  <213> ORGANISM: Homo sapien
242  <400> SEQUENCE: 15
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244  tagcagtcaa gtgtcttccc caatcctaat gtcccctgat atgtctctag cgacttgacc      120
245  atctcttgtt ccttgggact ggggccagcc tcttgtctgc ccacttccct ctcattagtc      180
246  agatagcccc aaaggctcta tctttagctc ccagagaact ttttggtcct cagtatttcc      240
247  cttccccttt ccttcctatt ccccacaact gggggaggga agggagaaca ggggcacctg      300
248  atcatcaatc tcccctgccc ctctcttgaa gccccctaga tttggatgaa gagcaggcca      360
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253  <211> LENGTH: 236
254  <212> TYPE: DNA
255  <213> ORGANISM: Homo sapien
257  <400> SEQUENCE: 16
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259  gctgacagca aagagctgct ctctgtgggc ctgcttcatc tcatccgaga ggccgtacaa      120
260  gaagtggtcc attcctttgt ctgaaggagc gacaggagca tctacggttg agaagacaga      180
261  aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga          236
263  <210> SEQ ID NO: 17
264  <211> LENGTH: 424
265  <212> TYPE: DNA
266  <213> ORGANISM: Homo sapien
268  <400> SEQUENCE: 17
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270  cattcagcct ttaccaatct tgtcctccaa aaaaacgaga agacatactg aaggcatgca      120
271  agcagatgca gatgataata ttcttgatta ctcggatgaa atggaagaaa tatttggttc      180
272  cctcaattcc ctgaaacaag acatcgagca tatgaaattt ccaatgggta ctcagaccaa      240
273  tccagcccga acttgtaaag acctgcaact cagccatcct gacttcccag atggtgaata      300
274  ttggattgat cctaaccaag gttgctcagg agattccttc aaagtttact gtaatttcac      360
275  atctggtggt gagacttgca tttatccaga caaaaaatct gagggagtaa gaatttcatc      420
276  atgg                                                                   424
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279  <211> LENGTH: 154
280  <212> TYPE: DNA
281  <213> ORGANISM: Homo sapien
283  <400> SEQUENCE: 18
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285  aggacaattg aaatttgcta aagggaaagg ggaaagaaag ggaaaaggga gaaaaagaaa      120
286  cacaagagac ttaaaggaca ggaggaggag atgg                                  154
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY   DATE: 09/14/2000
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Input Set : A:\478c10.app
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L:12 M:283 W: Missing Blank Line separator, <120> field identifier
L:17 M:270 C: Current Application Number differs, Wrong Format
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:1428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:1466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124
L:1885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:2003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:2038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:2057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:2079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135
L:2117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137
L:2170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140
L:2194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142
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L:2218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
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L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:2221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:2871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184
L:2878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184
L:2880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184
L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188
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L:3060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194
L:3061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194
L:3077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195
L:3258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:3299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208
L:3323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209
L:3532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:3536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:3540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:3541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
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Input Set : A:\478c10.app
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L:3542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:3560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221
L:3581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222
L:3582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222